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(54) Computer network gateway

(57) A gateway system for connecting first and second communication networks has first and second network end nodes and a protocol converter. The gateway system operates to provide input-output services of both network protocols to users of both networks in communicating through the gateway system. The gateway system employs associated complement protocol circuits in the end nodes and the protocol converter to provide

these services. An efficient technique for generating the complement protocol of a first network is to prune finite state machines representing the operation of the second network protocol to provide the services of the second protocol that are not provided by the first protocol. The complement protocol circuits for the second network are then constructed based on the pruned finite state machines representing the operation of the first protocol.

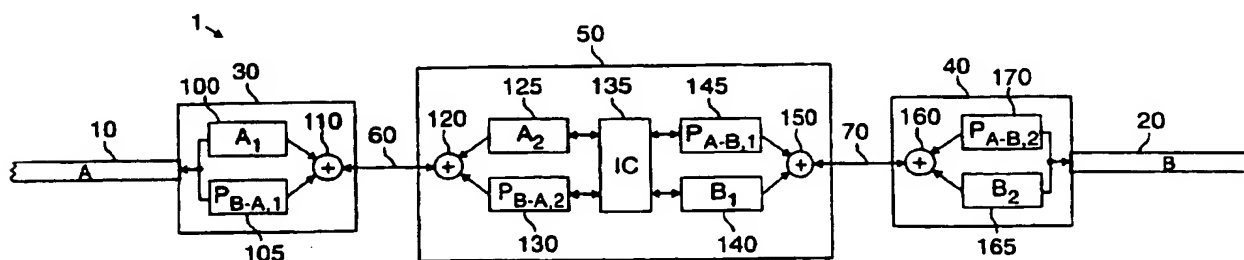


FIG. 2

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EUROPEAN SEARCH REPORT

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EP 95 30 6439

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A	* figures 1,2,5,6 *	9,10	
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	* figures 1,3,6-10 *		
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 1 February 2000	Examiner Cichra, M
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
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EUROPEAN SEARCH REPORT

Application Number
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<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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